Philips Medical Systems

NEWSLETTER **Service**

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SERVICE TOOLS NEWSLETTER

No. 34

Subject:
Update on Oscilloscope - Multimeter

Topics:

1. **Scopemeter Fluke PMS-199/C0x**
2. **Multimeter**

With this edition we want to update you on the Fluke Scopemeter and Multimeter and inform you about the changes that are being applied.

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1. SCOPEMETER PMS-199/COX - FLUKE

With the Tools newsletter no.17 (XRD-Best 148) we introduced the worldwide contract and recommendation on the Scopemeter PMS-199/C0x from Fluke. In that newsletter we informed that a special package with a special configuration was made available for Philips Medical Systems.

The configuration:

FLK-199:	ScopeMeter 190 series: 200MHz - 2.5GS/s real time sampling - dual channel digital oscilloscope
	Standard accessories: - Mains adapter (country specific line voltage adapter / battery charger) - Voltage Probe Set 10:1, 1 red, 1 gray (VP190) - Test Leads Set, 1 red, 1 black (TL 24) - 2-mm Test probe for Banana Jack, 1 red, 1 gray (BB190) - Fluke 192/196/199 ScopeMeter Users Manual (4822 872 00841)
SCC190 kit:	PC cable - Optically isolated RS-232 adapter/cable FlukeView - ScopeMeter software for Windows 95/98/NT4.0 Hard case - rugged, shock proof with integrated protective holster
PMS User Manual:	Users Manual Supplement MS190 and MA190 (4822 872 00979 / English)
MA190 Kit:	50-Ohms terminator (TR190-50R) 50-Ohms terminator with 10:1 attenuation (TA190-50R) 1-Ohm current shunt = mAs-shunt (CS190-1R) 1.5m isolated BNC cable Male 4mm to BNC adapter (used to connect mAs-shunt) Two 4mm female to 4mm female convertor (used to connect mAs-shunt using test leads)
MS190 Software Kit:	mAs measurement 1/T measurement with cursors Non interlaced video triggering Better video display (Smart Average) Better video display (Variable Persistence) Offset and dynamic range increase allows extra vertical magnification (Resolution)

Per January 1st 2002 the price of the PMS ScopeMeter has changed
Due to the received feedback and questions we want take this opportunity to:

- Inform you about the new contract prices / update on the overall contract (par. 1.1)
- Give you some additional information on the recommended way to measure video (par. 1.2)
- Inform you about the software compliancy of Fluke View with Windows 2000 (par. 1.3)

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1.1. NEW CONTRACT PRICE

The realized sales quantities of the Fluke ScopeMeter PMS199/C0x are not in line with the forecasted (negotiated) quantities. Some countries ordered this scopemeter but for some other countries the quantity remained zero.

Therefore a new contract price (valid from January 1st 2002) has been fixed for the remaining period of 18 months of the worldwide PMS - Fluke contract:

Please note that also a transition took place from the USD currency to the Euro currency.

Order Quantity	New price	Old price
Single unit order	€ 2795	€ 2520
5 unit order	€ 2775	€ 2500
10 unit order	€ 2725	€ 2450
25 unit order	€ 2675	€ 2405

Taking into account that the market prices for ScopeMeters have increased, Philips Medical Systems still receives a discount of approx. 30 % on the Fluke listprice.

The mentioned prices are valid if you order the instruments directly at the nearest Fluke sales office. If you order at Philips Service Logistics International (SLI Best) the prices you pay will be slightly higher (approx. +4%). There is also no quantity discount possible.

1.2. RECOMMENDED PROBE 1:1 FOR VIDEO MEASUREMENTS

The ScopeMeter PMS-199/C0x is delivered with two 10:1 probes. For most work situations, the minimal scale of 50mV/division of these probes is sufficient. However we received a lot of remarks and questions that with the 10:1 probes it is not easy to measure video.
Especially for video measurements in systems with DSI, Integris V3k/H3k, XTV11D/S/T, a sensitivity of at least 5mV/div. is necessary.
A probe 1:1 however solves this problem and therefore in close cooperation with the Professor Holst Training Centre the Fluke probe model VPS121 is recommended.

Please note that this probe is also compatible with the ScopeMeter Fluke model 99.

Specifications Fluke model VPS121 1:1 Voltage Probe Set 12Mhz:

Containing:		
1:1 Voltage Probe	1 black	
Hook Clip for Probe Tip	1 red	
4-mm Test Probe for Probe Tip	1 red	
Ground Lead with Hook Clip	1 red	
Ground Lead with Mini Alligator Clip	1 black	

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Attenuation	1x
Bandwidth	12 MHz
Max. Input Voltage	300 V CAT III
Max. Voltage to ground	600 V CAT III
Input Resistance	1 Mohm
Input Capacitance	42pF + Osc. Input Cap.
Cable Length	1.2m
Altitude	3000m
Safety	UL3111.1 / CSA C22.2 No. 1010.1 / IEC / EN61010-2-031
Working Voltage	300 V CAT III
Pollution Degree	2
Protection Class	II (double insulation)

Ordering information - Price:

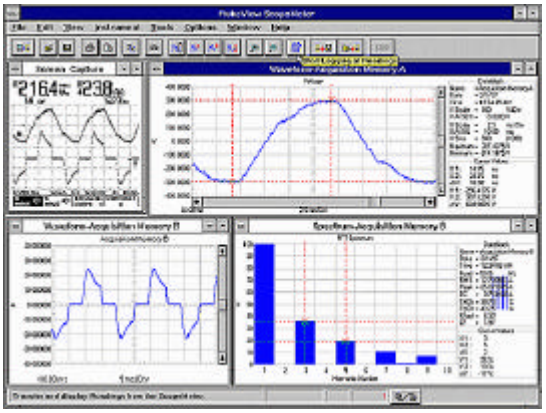
The Fluke model VPS121 1:1 Voltage Probe can only be ordered via your local purchase office directly at the nearest Fluke Sales Office (no 12NC)
The price for this probe VPS121 is approx. € 180

1.3. FLUKE VIEW SOFTWARE - WINDOWS 2000 COMPLIANCY

Together with the PMS ScopeMeter a CD-Rom with FlukeView software is delivered (see page 3 for the complete configuration).

The FlukeView ScopeMeter software helps you get more out of your ScopeMeter by:

Documenting	Transfer screens, waveforms, and measurement data from the ScopeMeter to your PC for printing, or to import data to other programs
Archiving	Store and retrieve waveforms with text annotations and create your own library for easy reference and comparison
Analysis	Gather valuable measurement data and enable cursor measurements to reveal relationships and conditions. Extended recording of up to four user-selected measurements help you monitor and analyze slow moving signals and related events. Upload waveforms to the PC and use cursors for detailed measurements. Perform waveform analysis, including analyzing harmonics



Included on the CD-Rom are 2 versions of the FlukeView software which are Windows 95-98-Me-NT 4.0 - 2000 compliant:

- version 4.0 which is suitable for the Fluke scopemeter 123-190-190C
- version 3.04 suitable for models 97-99-105-96B-**99B**-105B-123-192-196-**199**

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If you own an older software version (3.0 or 3.03) you can visit the Fluke website for finding how to properly install these versions on Windows 2000.

For more information visit the FlukeView for ScopeMeter - Updates and Demo Software Download Site http://www.fluke.com/scopemeter/software.asp

2. MULTIMETER UPDATE

The currently recommended multimeter 187-IV meets the PMS requirements. However several SSD's made the remark that this tool is too expensive.
So together with some key countries (SSD Germany - PMSNA) and the PMS Tool Committee an alternative model is being made available. The alternative model is the Fluke multimeter 177 and will be introduced in the next release of the Tool Catalogue Edition1, 2002.

For the time being the model 187-IV will remain in the Tool Catalogue.

2.1. INTRODUCTION FLUKE MODEL 177

Features:

True RMS measurement
Bandwidth: 50kHz
Digital display 6000 counts, updates 4x second
Backlight to illuminate the screen in dark workspaces
Lifetime warranty
IEC 1010 CAT IV 600V, CAT III 1000V
Min/Max/Average recording
Frequency, capacitance & resistance capabilities
Easy access battery door to change the battery without breaking the calibration seal
Analog Bargraph Display - 33 segments, updates 40x second
Compatible with ToolPak meter hanging kit

Nominal Specifications

Function	Absolute Range or Description
AC Voltage, True-RMS	0,1 mV to 1000 V (1 kHz)
DC Voltage	0,1 mV to 1000 V
Continuity	Beeper guaranteed on < 25 Ohm, guaranteed off > 250 Ohm; detects opens or shorts of 250 us or longer
Resistance	0,1 Ohm to 50.00 Mohm
Diode test	2.400 V
Capacitance	1 nF to 9999 uF
AC Current, True-RMS	0.01 mA to 10.00 A (20.00A over-range for 30 seconds)
DC Current	0.01 mA to 10.00 A (20.00A over-range for 30 seconds)
Frequency	2 Hz to 50 kHz
Basic DC voltage accuracy	0.09%
Basic ac voltage accuracy	1%
Battery life	Alkaline avg. 200 hrs typical
Weight	420 gr
Dimensions	185 L x 90 W x 43 H [mm]

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A wide range of options are available:

- High Voltage probe (TC 067)
- Current clamps
- Pressure and Temperature probes
- Fiber optic module
- Test leads and cables
- Transportation cases
- ToolPak
- Lockpak

Ordering information - price:

The Fluke multimeter model 177 is ordered via your local purchase office directly at the nearest Fluke Sales Office or can be ordered at Philips Service Logistics International Best.

The price for this multimeter 177 is approx. € 270

If you order at Philips Service Logistics International (SLI Best) the prices you pay will be slightly higher (approx. +4%).
12NC = 8322 249 97232

More information:

Visit the Fluke website http://www.fluke.com

3. ANY QUESTIONS?

In case you have any questions or remarks, please contact:

PMS Tools Helpdesk Mailto:helpdesk.pmstools@philips.com

Visit the Lead office Tools website at the PMS TechNet:
Address: http://technet.best.ms.philips.com
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